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Frequency of Her2/neu expression in colorectal adenocarcinoma: A study from developing South Asian country

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Background & Purpose: Human Epidermal Growth Factor (Her-2/neu) has strong therapeutic implications in certain cancers like breast and gastric cancer. Literature on its frequency in colorectal cancer is scarce. In this study, we have investigated the frequency Her-2/neu expression in colorectal adenocarcinomas and its association with various clinicopathological variables.

Methods: A total of 95 patients who underwent colonoscopic biopsy or colectomy were studied a er institutional ethical approval. Hematoxylin & eosin (H&E) staining was performed on all the tissue sections. Expression of Her-2/neu was investigated by immunohistochemistry using -Her-2 antibody. In order to quantify Her-2/neu expression, three criteria were applied that includes the pattern of staining, intensity of staining and percentage of tumor cells stained. Furthermore, its association was seen with various clinicopathological variables including age, gender, histopathological type, grade and stage of the tumor. Data was entered an analyzed using SPSS version 21. A p-value of <0.05 was considered as signi cant.

Results: From the total of 95 cases, 75 (78.9%) cases showed Her-2/neu expression. Pattern of Her-2/neu staining was signi cantl associated with the grade (p-value=0.030) and type of colorectal cancer (p-value=0.024). We also observed a signi cant associatio between percentage of cells stained and tumor type (p-value=0.006).

Conclusion: Her2/neu is considerably expressed in colorectal adenocarcinoma in Pakistani population. Our ndings indicate a signi cant strong association of cytoplasmic Her-2/neu expression with low grades and membranous Her-2/neu expression with high grades of colorectal cancer.

Biography

Asma Shabbir has a passion towards research and is concerned for better prognosis of the illnesses (especially cancer patients). Her primary area of expertise is diagnostic pathology and also adores to teach the medical students. Her dissertation work involved evaluation of Her-2/neu in gastric and colorectal adenocarcinomas, the basis of ZKLFK DULVHG IURP WKH XVH RI WDUJHWHG WKHUDS\ .+HU LQ EUHDVW FDQFHU SDWLHQWV 6LPLODUO\ $ option for better prognosis to these patients in this new era of personalized medicine.

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